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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/506,921	09/03/2004	Tadahiko Kubota	09792909-5985	6968	
26263 SONNENSCH	7590 06/30/200 IEIN NATH & ROSEN	EXAM	EXAMINER		
P.O. BOX 061080			CREPEAU, JONATHAN		
WACKER DR CHICAGO, IL	IVE STATION, SEAR . 60606-1080	ART UNIT	PAPER NUMBER		
cinerios, in	7 00000 1000	1795			
			MAIL DATE	DELIVERY MODE	
			06/30/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/506,921 KUBOTA, TADAHIKO Examiner Art Unit Jonathan S. Crepeau 1795 The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Reply

			Jonathan S. Crepeau	1795					
_		The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ac	ldress				
Pe		or Reply							
	WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MALLING DA raisons of time may be available under the provisions of 37 CFR 1.13 period for only is specified above, the maximum statutory period to re to exply within the set or extended period for reply will by statute, reply received by the Office later than three months after the making of patent term displamment. See 37 CFR 1.744(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).					
St	atus								
	1)🛛	Responsive to communication(s) filed on 11 Ap	<u>ril 2008</u> .						
	2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.						
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the mo								
		closed in accordance with the practice under E	x <i>parte Quayle</i> , 1935 C.D. 11, 45	53 O.G. 213.					
Di	spositi	ion of Claims							
	4)🛛	Claim(s) 1 and 3-10 is/are pending in the applic	ation.						
		4a) Of the above claim(s) 3-10 is/are withdrawn	from consideration.						
	5)	Claim(s) is/are allowed.							
	6)🛛)⊠ Claim(s) <u>1</u> is/are rejected.							
		Claim(s) is/are objected to.							
	8)□	Claim(s) are subject to restriction and/or	election requirement.						
4	plicati	ion Papers							
	9)[9)☐ The specification is objected to by the Examiner.							
	10)	The drawing(s) filed on is/are: a) acce	pted or b) objected to by the I	Examiner.					
		Applicant may not request that any objection to the o	lrawing(s) be held in abeyance. See	37 CFR 1.85(a).					
		Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d)				
	11)[The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form P	ΓΟ-152.				
Pr	iority u	ınder 35 U.S.C. § 119							
		Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents		-(d) or (f).					
		2. Certified copies of the priority documents	have been received in Applicati	on No					
		Copies of the certified copies of the priori	•	ed in this National	Stage				
		application from the International Bureau							
	* 8	See the attached detailed Office action for a list of	of the certified copies not receive	d.					

Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Hormation Disclosure Statement(€) (PTO/SE/CS) Paper No(s)/Mail Date	4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application 6) Other:	

Application/Control Number: 10/506,921 Page 2

Art Unit: 1795

DETAILED ACTION

Response to Amendment

 This Office action addresses claims 1 and 3-10. Claims 3-10 remain withdrawn from consideration. Claim 1 is new rejected under 35 USC 103, as necessitated by amendment. Accordingly, this action is made final.

Claim Rejections - 35 USC § 103

 Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 8-203561 in view of WO 99/52824.

JP '561 is directed to a lithium secondary battery comprising a positive electrode, an electrolyte and a negative electrode comprising a carbon material or a lithium metal (see abstract). The electrolyte comprises hydroquinone, which corresponds to the "aromatic compound" of instant claim 1. The electrolyte further comprises a solvent and a lithium salt (see [0010], [0011] of machine translation). The battery may further comprise an aluminum current collector for the negative electrode (see [0021]).

The reference does not expressly teach that the electrolyte comprises a precipitate film formed from the aromatic compound, as recited in claim 1.

However, the invention as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made because the claimed precipitate film would be formed during normal manufacturing of the battery of JP '561 if it contains a lithium metal anode. As

Application/Control Number: 10/506,921 Page 3

Art Unit: 1795

recited in claim 1 and as disclosed in the instant specification, the precipitate film is formed on a metal lithium layer which is also formed during a battery charging process. The skilled artisan would have sufficient knowledge to construct the battery of JP '561 according to this process, thereby resulting in a deposited lithium layer and a precipitate film. As evidence of this knowledge, the following passage from WO 99/52824 (English equivalent: US 6,652,605) is cited: (col. 10, line 34 of US '605):

Similarly, in batteries using a lithium metal negative selectrode, the cell is assembled in the discharged state, the reserve of lithium iens is siready contained in the positive electrode material according to the invention and the cell begins its life by being charged, in other words by the lithium deposit derived from the active material of the positive electrode being deposited on the negative electrode, instead of a material removal, in other words material is not removed from the lithium metal negative electrode during the first discharge, thus improving the quality of the negative electrode electrode/electrolyte interface during evening.

As this passage states that batteries having lithium metal anodes are assembled in a discharged state and then charged, thus depositing the lithium metal layer, it would be obvious to assemble the battery of JP '561 in this manner. Therefore, upon performing this process, the electrolyte of JP '561 would contain the "precipitate film" recited in instant claim 1 because the claimed process of forming the film is substantially identical to the process of WO '824. Accordingly, claim 1 would be obvious over these references.

Application/Control Number: 10/506,921 Page 4

Art Unit: 1795

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this
Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).
 Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Crepeau whose telephone number is (571) 272-1299. The examiner can normally be reached Monday-Friday from 9:30 AM - 6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan, can be reached at (571) 272-1292. The phone number for the organization where this application or proceeding is assigned is (571) 272-1700. Documents may be faxed to the central fax server at (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

Art Unit: 1795

applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jonathan Crepeau/ Primary Examiner, Art Unit 1795 July 1, 2008